INDEX

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2	CT1	CERTIFICATION SHEET
3	VM1	VICINITY MAP
4	SQ1	SUMMARY OF QUANTITIES
5 - 7	DFD1 - DFD3	DEBRIS FLOW BARRIER DETAIL
8 - 11	TMD1 - TMD4	TECCO MESH DETAIL
12 - 15	NA1 - NA4	SOIL PREPARATION
16 - 19	NB1 - NB4	PLANTING PLAN
20	CS1	CONSTRUCTION SIGNS CLASS A
21 - 22	TC1 - TC2	TRAFFIC CONTROL PLAN

PLAN
REFERENCE
NO.
SHEET
OF
SHEETS

NOTE: ALL SHEET REFERENCES, FIRST NOS. OF STRUCTURE CODE DESIGNATIONS AND MATCH LINE SHEET REFERENCES, ETC., THROUGHOUT THE PLANS, REFER TO THE ENTRY IN THE PLAN REFERENCE NUMBER BOX.

FILE NAME	G:\444302\03 - Design\D01421[SR14 1 Mile W	of Salmon Falls	Rd - Repair Debris	Fence\20-CA	DD-Pla	ns\20-1	1 PS&E	Sheets\XL6002_PS_IN.dgn
TIME							REGION NO.	STATE	FED.AID PROJ.NO.
DATE								WASH	NHPP-0014(088)
PLOTTED BY							10	WASH	
DESIGNED BY	A. PIERCE						JOB N		
ENTERED BY	A. PIERCE						21X	333	
CHECKED BY	D. WISE						CONTR	ACT NO.	LOCATION NO.
PROJ. ENGR.	M. BRIGGS								XL 6376
REGIONAL ADM.	C. FRANCIS		REVISION		DATE	BY			XE 0370

DATE

Washington	State	Department of Transportation

SR 14	
1 MILE W OF SALMON FALLS	RD
REPAIR DEBRIS FENCE	

INDEX

Plot 1
PLAN REF. NO.
IN1

SHEET

OF

22
SHEETS

PROJECT LICENSED PROFESSIONAL CERTIFICATES

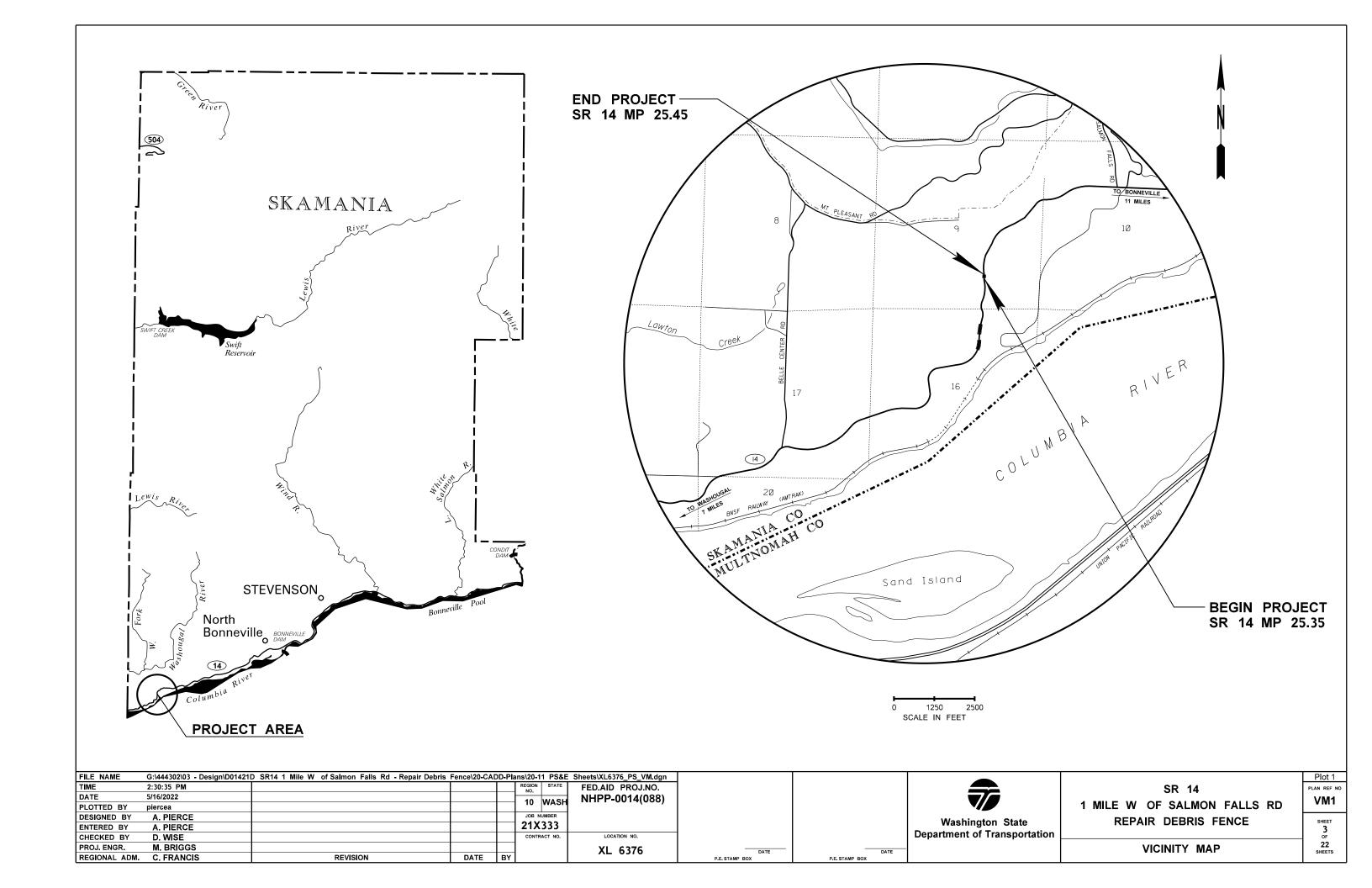
Mina Troppe	Majal	Timil F. Colott	
Jun 23, 2022	Jun 23, 2022	Jun 24, 2022	
AS A PROFESSIONAL ENGINEER IN DIRECT RESPONSIBLE CHARGE OF DEVELOPING THIS CONTRACT, I CERTIFY THAT ALL PLANS THAT CONTAIN MY STAMP HAVE BEEN DEVELOPED UNDER MY SUPERVISION AS A LICENSED PROFESSIONAL.	AS A PROFESSIONAL ENGINEER IN DIRECT RESPONSIBLE CHARGE OF DEVELOPING THIS CONTRACT, I CERTIFY THAT ALL PLANS THAT CONTAIN MY STAMP HAVE BEEN DEVELOPED UNDER MY SUPERVISION AS A LICENSED PROFESSIONAL.	AS A PROFESSIONAL ENGINEER IN DIRECT RESPONSIBLE CHARGE OF DEVELOPING THIS CONTRACT, I CERTIFY THAT ALL PLANS THAT CONTAIN MY STAMP HAVE BEEN DEVELOPED UNDER MY SUPERVISION AS A LICENSED PROFESSIONAL.	AS A PROFESSIONAL ENGINEER IN DIRECT RESPONSIBLE CHARGE OF DEVELOPING THIS CONTRACT, I CERTIFY THAT ALL PLANS THAT CONTAIN MY STAMP HAVE BEEN DEVELOPED UNDER MY SUPERVISION AS A LICENSED PROFESSIONAL.
AC A PROFESSIONAL ENGINEER IN DIRECT RESPONSIBLE CHARGE	AS A PROFESSIONAL ENGINEER IN DIRECT RESPONSIBLE CHARGE	AS A DROFFESSIONAL ENGINEED IN DIRECT DESCRIPTION CHARGE	AS A DROFFSSIONAL FAIGHTED IN DIRECT RESPONSIBLE SHARES
AS A PROFESSIONAL ENGINEER IN DIRECT RESPONSIBLE CHARGE OF DEVELOPING THIS CONTRACT, I CERTIFY THAT ALL PLANS THAT CONTAIN MY STAMP HAVE BEEN DEVELOPED UNDER MY SUPERVISION AS A LICENSED PROFESSIONAL.	AS A PROFESSIONAL ENGINEER IN DIRECT RESPONSIBLE CHARGE OF DEVELOPING THIS CONTRACT, I CERTIFY THAT ALL PLANS THAT CONTAIN MY STAMP HAVE BEEN DEVELOPED UNDER MY SUPERVISION AS A LICENSED PROFESSIONAL.	AS A PROFESSIONAL ENGINEER IN DIRECT RESPONSIBLE CHARGE OF DEVELOPING THIS CONTRACT, I CERTIFY THAT ALL PLANS THAT CONTAIN MY STAMP HAVE BEEN DEVELOPED UNDER MY SUPERVISION AS A LICENSED PROFESSIONAL.	AS A PROFESSIONAL ENGINEER IN DIRECT RESPONSIBLE CHARGE OF DEVELOPING THIS CONTRACT, I CERTIFY THAT ALL PLANS THAT CONTAIN MY STAMP HAVE BEEN DEVELOPED UNDER MY SUPERVISION AS A LICENSED PROFESSIONAL.
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NOTES:

THIS PLAN SET WAS DEVELOPED ELECTRONICALLY UNDER THE DIRECT SUPERVISION OF THE LICENSED PROFESSIONALS THAT HAVE AFFIXED THEIR SIGNATURE TO THIS PAGE.

THIS SHEET SERVES AS THE CERTIFICATION BY THE ABOVE LICENSED PROFESSIONALS OF ALL SHEETS IN THIS PLAN SET WHERE THEIR STAMPS AND SIGNATURES APPEAR.

FILE NAME	G:\444302\03 - Design\D01421D SR14 1 Mile W of Salmon Falls Rd - Repair Debri	is Fence\20-CAI	DD-Plans\20-11 PS&I	Sheets\XL6376_PS_CT.dgn					Plot 1
TIME	2:29:17 PM		REGION STATE NO.	FED.AID PROJ.NO.				SR 14	PLAN REF
DATE	5/16/2022		10 WASH	NHPP-0014(088)				4 1411 5 144 65 644 1464 5444 6 55	CT1
PLOTTED BY	piercea		10 10	` ′				1 MILE W OF SALMON FALLS RD	
DESIGNED BY	A. PIERCE		JOB NUMBER				Washington State	REPAIR DEBRIS FENCE	SHEET
ENTERED BY	A. PIERCE		21X333				, ,	KLI AIK DEBKIO I LIVOL	2
CHECKED BY	D. WISE		CONTRACT NO.	LOCATION NO.			Department of Transportation		OF
PROJ. ENGR.	M. BRIGGS			XL 6376	——————————————————————————————————————	DATE		CERTIFICATE SHEET	22 SHEETS
REGIONAL ADM	C FRANCIS REVISION	DATE	BY	XL 03/0	DE STAMP BOY	DE STAMP BOY			SHEETS



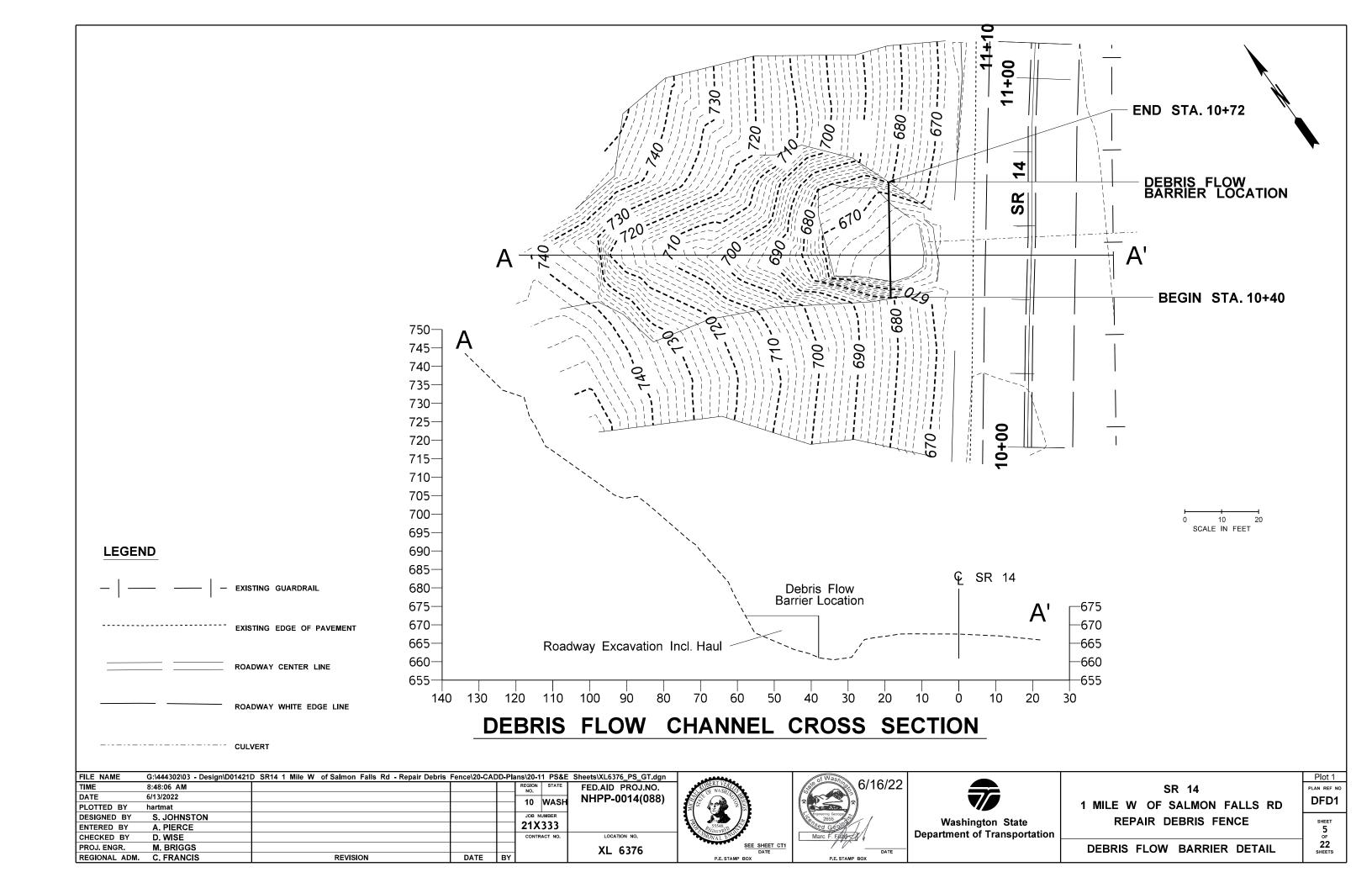
SUMMARY OF QUANTITIES

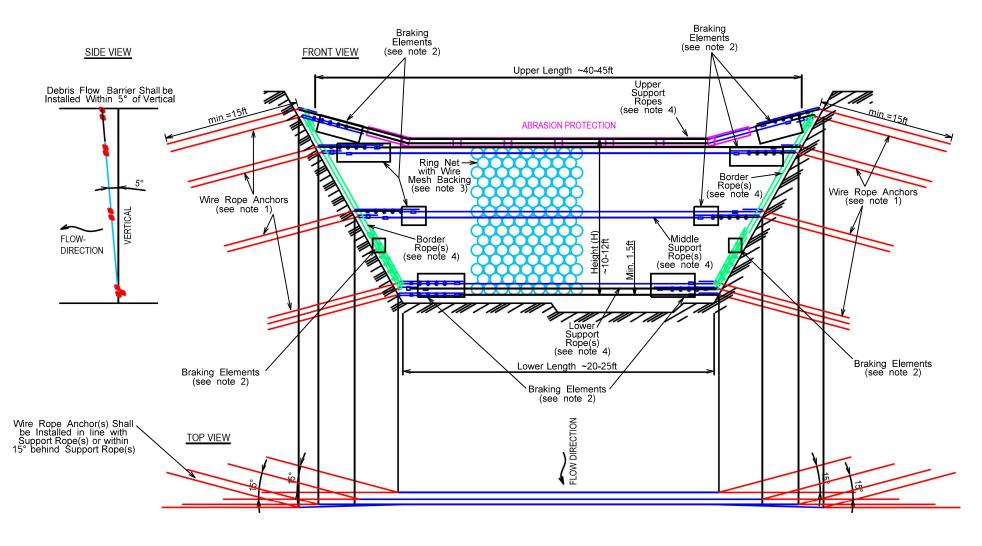
6/13/2022	

l																					
		SUB-TOTAL *	SUB-TOTAL				GROUP 1	GROUP 2													
ITEM	TOTAL	SECTION	SECTION	STD.			MP 25.35 TO	THIRD					1								
NO		I-07.2(1)	I-07.2(2)	ITEM	UNIT	ITEM	MP 25.45	PARTY													
	QUANTITY	OF STANDARD	OF STANDARD	NO.				DAMAGES													
		SPECS	SPECS																		
l			l	+ +		PREPARATION		1	1		1	1	1				1				
1	LUMP SUM		LIIMPSIM	1 0001	1.5	MOBILIZATION	L.S.	<u> </u>	1	1	1	1	1	1	1	1	1	<u> </u>			<u></u>
	LOWIF SOW		LOWI COW	1 1	L.O.	MODILIZATION		<u>l</u>	1	1	1	1	1	<u>1</u> 1	<u>1</u>	1	1	<u> </u> 		1	<u> </u>
}	I		<u> </u> 	<u> </u>		GRADING		<u> </u>	1	1	1	1	1	<u> </u>	<u> </u>	1	1	<u> </u>		<u> </u>	<u> </u>
2	100.00		l 100.00	1 0310 1	CV	ROADWAY EXCAVATION INCL. HAUL	100.00	<u> </u>	1	1	<u> </u>	1	1	<u> </u>	<u> </u>	1	1	<u> </u> 		<u>I</u>	
	100.00		100.00	1 1	0.1.	NOADWAT EXOAVATION INCL. HAGE	11	<u> </u>	1	1	<u> </u> 	1	1	<u> </u>	l I	1	1	<u> </u>		<u> </u>	<u> </u>
	I		<u> </u>	 		EROSION CONTROL AND ROADSIDE PLANTING	!	<u> </u> 	<u> </u>	<u> </u>	<u> </u>	1	1	l I	! 	1	<u> </u>			<u>l</u>	
3	6.00		6.00	1 6403 1	DAY	ESC LEAD	6.00	1	1	1	<u> </u>	1	1	I	I	1	1	<u> </u>			<u>_</u>
4	470.00		470.00			COMPOST BLANKET	470.00	1	1	1	<u> </u>	1	1	I	<u>. </u>	i I	1	<u> </u>		<u></u>	<u>_</u>
5	1700.00		1700.00			WATTLE	1,700.00	1	1		<u> </u>	1	<u>.</u> 1	<u>. </u>	<u>. </u>	<u> </u>	<u> </u>			1	<u>_</u>
6	10000.00		10000.00	6490		EROSION/WATER POLLUTION CONTROL	10,000.00	<u> </u>	i	1	<u> </u>	1	<u>1</u> 1	<u>. </u>	<u>. </u>	<u> </u>	<u> </u>		<u> </u>	<u>_</u>	<u> </u>
7	470.00		470.00			SEEDING, FERTILIZING AND MULCHING	470.00	<u> </u>	1	1	<u> </u>	1	<u> </u>	<u> </u>	<u> </u> 	<u> </u>	<u> </u>		<u> </u>	<u>_</u>	<u>-</u>
8	600.00		600.00			PREPARATION FOR PLANTING	600.00	1	1		<u> </u>	1	1	<u>. </u>	<u>. </u>	<u> </u>	<u> </u>		<u> </u>		
9	10.00		10.00			PSIPE TREE MIX A	10.00	1	İ	1		1	†	i	<u> </u>	i	i I	<u> </u>		<u> </u>	
10	550.00		550.00			PSIPE SHRUB MIX A	550.00	1	i	1	<u> </u>	i	i	1	1		İ]		i	
11	1400.00		1400.00			PSIPE GRASS MIX A	1,400.00	1	i	1		i	İ	1	1	1	1]		i	<u></u>
12	1600.00		1600.00			PSIPE GRASS MIX B	1,600.00	<u> </u>	i	1	<u> </u>	i	i	<u>1</u> 1	<u>.</u> 1	i I	<u> </u>	<u> </u>		i	
13	170.00		170.00			BARK OR WOOD CHIP MULCH	170.00	1	i	1	<u> </u>	i	İ	i I	i I	l	1	<u> </u>		i	
14	470.00		470.00			EROSION CONTROL BLANKET	470.00	1	i	1	<u> </u>	i	İ	İ	İ	İ	1	<u> </u>		i	
15	20.00		20.00	1 1		GENERAL WEED CONTROL - CHEMICAL APPLICATION	20.00	1	i	1		i	İ	İ	İ	İ	1	<u> </u>		i	i
16	20.00		20.00	i		GENERAL WEED CONTROL - HAND PULLING	20.00	1	i	i		i	i	İ	İ	i	1	<u> </u>		i	i
				ii				1	i	i	i	i	i	İ	İ	i	İ	<u> </u>		i	i
limi	ĺ			ii		TRAFFIC			i	i		i	i	i	i	i	İ			İ	i
17	300.00		300.00	7448	HR	TRANSPORTABLE ATTENUATOR	300.00		i	i		i	i	i	i	i	İ		İ	Ì	i
18	10000.00		10000.00			REPAIR TRANSPORTABLE ATTENUATOR	10,000.00		i	i		i	i	i	i	i	İ		İ	i	i
19	840.00		840.00	6993	HR	PORTABLE CHANGEABLE MESSAGE SIGN	840.00	İ	i	İ	İ	i	İ	i	i	İ	i			i	i
20	LUMP SUM		LUMP SUM	6973	L.S.	OTHER TEMPORARY TRAFFIC CONTROL	L.S.	İ	İ	i	İ	i	İ				İ			i	i
21	480.00		480.00	6980		FLAGGERS	480.00	İ	İ	i i	İ	i	İ				İ			i	i
22	180.00		180.00	6992	HR	OTHER TRAFFIC CONTROL LABOR	180.00	Ì	İ		Ì	Ì	İ	İ	İ	İ	İ				i
23	LUMP SUM		LUMP SUM	6974	L.S.	TRAFFIC CONTROL SUPERVISOR	L.S.			İ			İ	İ	İ				İ	İ	İ
24	72.00		72.00	6982	S.F.	CONSTRUCTION SIGNS CLASS A	72.00			İ			İ	ĺ	ĺ				İ	İ	İ
i	i			i i									İ	ĺ	ĺ					İ	i
Ii⊟i	i			į i		OTHER ITEMS							ĺ	ĺ	ĺ					İ	i
25	10000.00		10000.00	7715	DOL	FORCE ACCOUNT VISUAL MITIGATION	10,000.00			1			Ī						İ	İ	i
26	48000.00		48000.00	7715	DOL	FORCE ACCOUNT ROCK DOWELS TYPE 1	48,000.00														j
27	5000.00		5000.00	7715	DOL	FORCE ACCOUNT GROUT EXCEEDANCE	5,000.00														i
28	10000.00		10000.00	7480	DOL	ROADSIDE CLEANUP	10,000.00						1								
29	5.00		5.00	7725	DOL	REIMBURSEMENT FOR THIRD PARTY DAMAGE		5.00													
30	-1.00		-1.00	7728	DOL	MINOR CHANGE	-1.00														
31	3400.00		3400.00		S.F.	PINNED WIRE MESH SLOPE STABILIZATION SYSTEM	3,400.00														
32	LUMP SUM		LUMP SUM		L.S.	REPLACE GEOBRUGG DEBRIS FLOW FENCE	L.S.														
													1								
						·															

GROUP	GROUP NUMBER	SR	CONTROL SECTION	TAX SCHEDULE	FUND PARTICIPANTS
LEGEND	1	014	300136	**	FEDERAL,STATE
	2	014	300136	**	STATE

		REGION	STATE FEDERAL AID PROJECT. NO.		CD 44	SQ1
		10	NHPP-0014(088)		SK 14	301
				Washington State	1 MILE W OF SALMON FALLS RD	SHEET
			UMBER	Department of Transportation	REPAIR DEBRIS FENCE	4
		21X	333/4			
		CONTR	RACT NO		SUMMARY OF QUANTITIES	22
DATE REVISION	BY	7 000	0000			SHEETS





RING NET WITH WIRE MESH BACKING

BORDER ROPE

WIRE ROPE ANCHOR

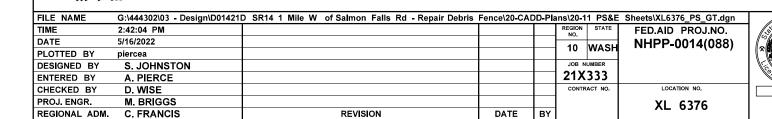
BRAKING ELEMENT

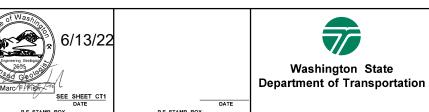
ABRASION PROTECTION

DEBRIS FLOW CHANNEL

- 1 Wire rope anchors shall have a minimum pullout strength per the debris flow barrier manufacturer's specifications.
 2 Each support and border rope shall have a breaking element as per the manufacturer's specifications.
 3 The wire mesh backing shall be placed on the downslope side of the ring nets.
 4 Number of support and border ropes as per the manufacturer's specifications.

DEBRIS FLOW BARRIER DETAILS





SR 14
1 MILE W OF SALMON FALLS RD
REPAIR DEBRIS FENCE

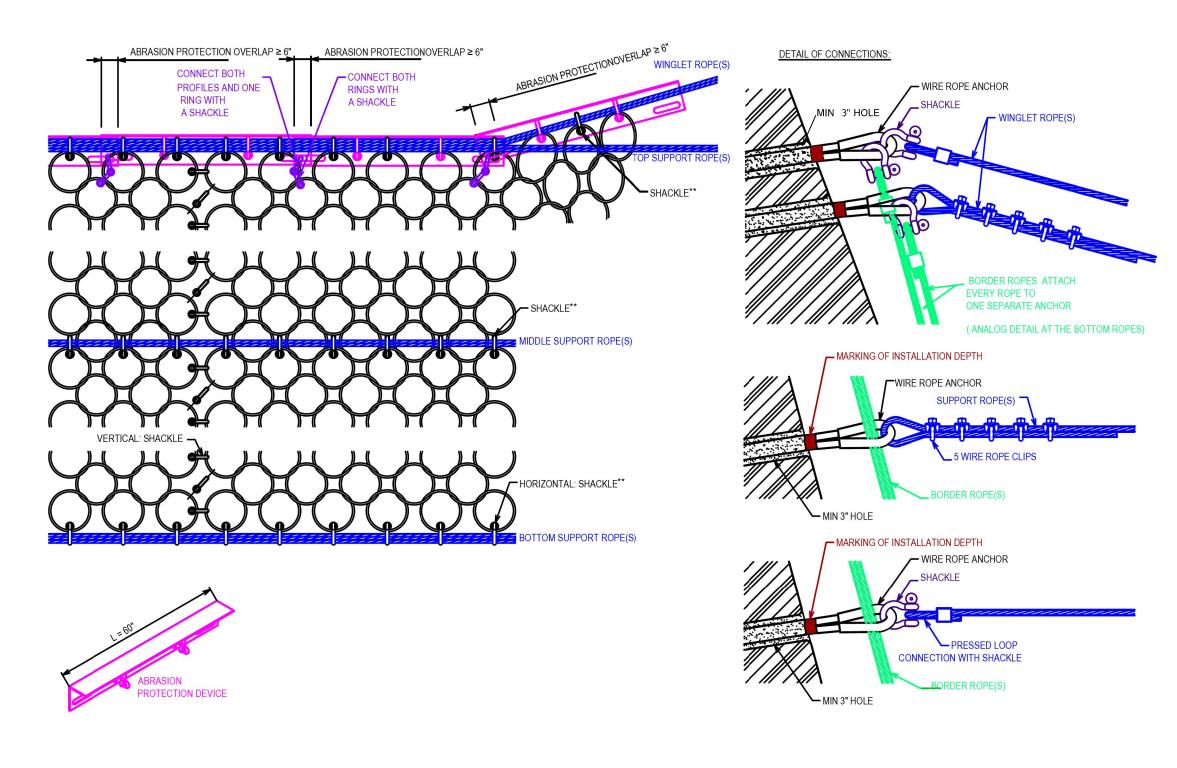
Plot 2

PLAN REF NO

DFD2

22 SHEETS

DEBRIS FLOW BARRIER DETAIL

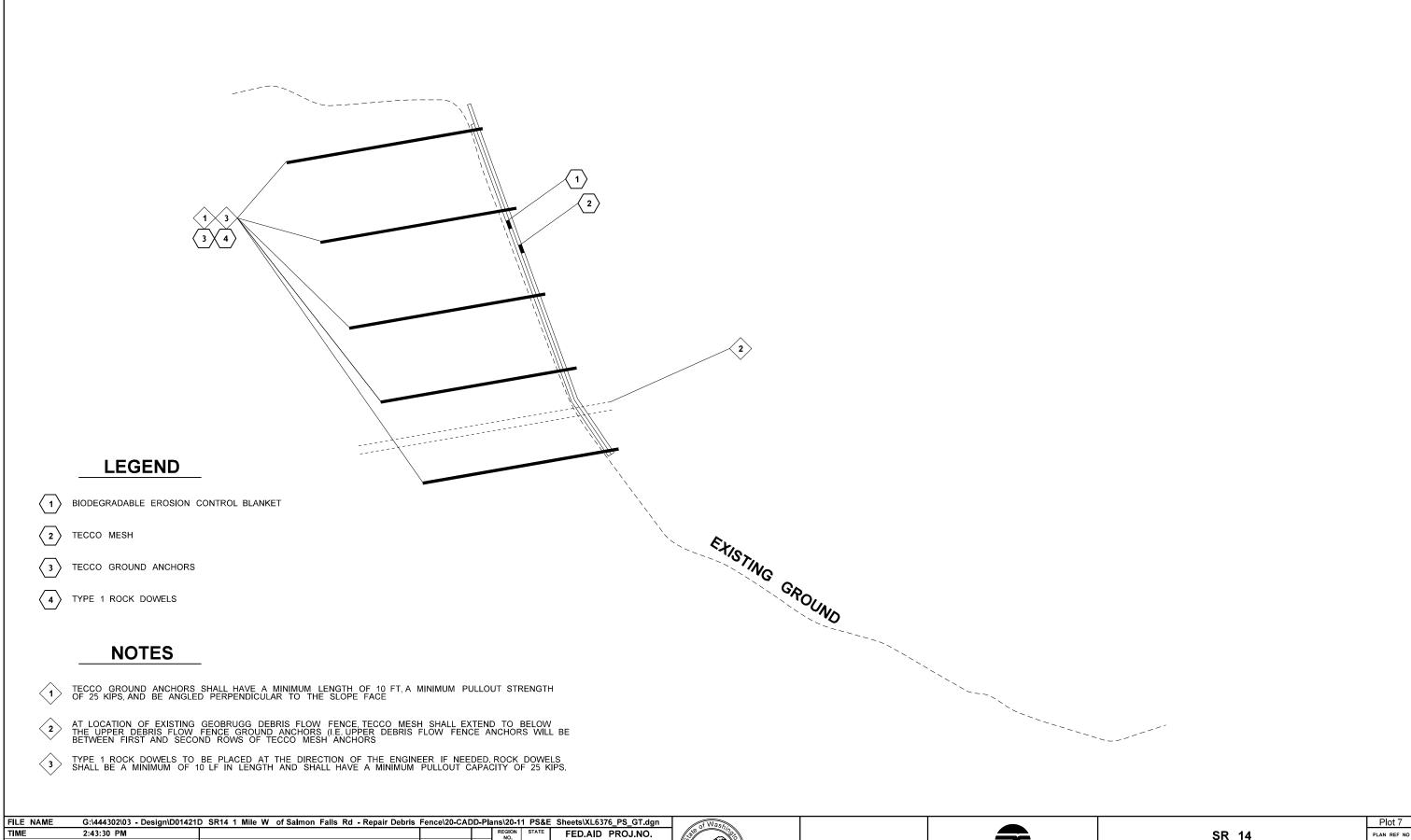


DEBRIS FLOW BARRIER DETAILS

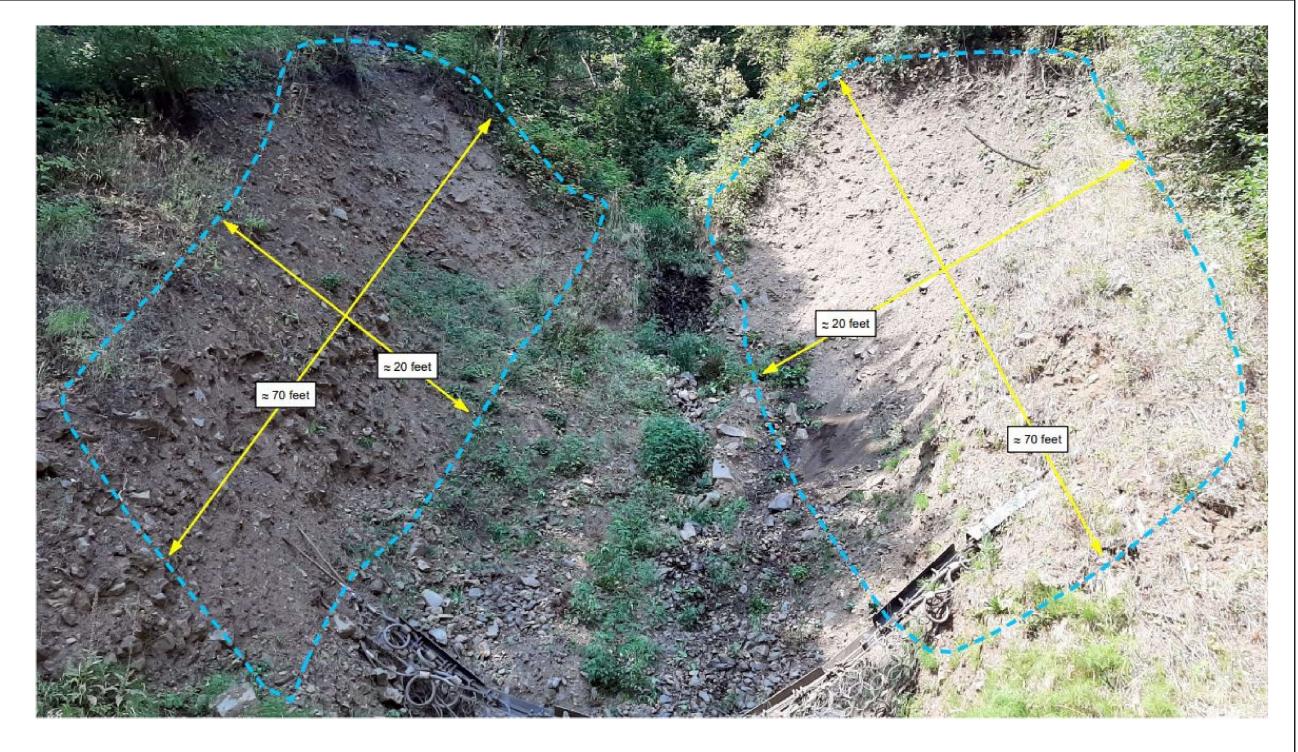
NOTES

** SHACKLES CAN BE REUSED IF IN GOOD CONDITION.

FILE NAME	G:\444302\03 - Design\D01421	D SR14 1 Mile W of Salmon Falls Rd - Repair Debris	Fence\20-CA	DD-Plans\20-11 PS&E	Sheets\XL6376_PS_GT.dgn	of Wash				Plot 3
TIME	2:42:27 PM			REGION STATE	FED.AID PROJ.NO.				SR 14	PLAN REF NO
DATE	5/16/2022			10 WASH	NHPP-0014(088)	6/13/22				DFD3
PLOTTED BY	piercea			I IU WASH	,	X OI TOIZE			1 MILE W OF SALMON FALLS RD	5, 55
DESIGNED BY	S. JOHNSTON			JOB NUMBER		Engineering Geologies 2655		Washington State	REPAIR DEBRIS FENCE	SHEET
ENTERED BY	A. PIERCE			21X333		7360 5600		_	KLFAIK DEBKIS TENCE	7
CHECKED BY	D. WISE			CONTRACT NO.	LOCATION NO.	Marc F. Fish W		Department of Transportation		OF
PROJ. ENGR.	M. BRIGGS				XL 6376	SEE SHEET CT1	DATE	_	DEBRIS FLOW BARRIER DETAIL	22 SHEETS
REGIONAL ADM.	C. FRANCIS	REVISION	DATE	BY	AE 0370	P.E. STAMP BOX	P.E. STAMP BOX			SHEETS



FILE NAME	G:\444302\03 - Design\D01421	D SR14 1 Mile W of Salmon Falls Rd - Repair Debri	s Fence\20-CAI	DD-Plans\20-11	PS&E Sheets\XL6376_PS_GT.dgn	of Wash				Plot 7
TIME	2:43:30 PM			REGION NO	STATE FED.AID PROJ.NO.				SR 14	PLAN REF NO
DATE	5/16/2022			10 V	NHPP-0014(088)	6/13/2	ፇ			TMD1
PLOTTED BY	piercea			10 1	VASII		Ť		1 MILE W OF SALMON FALLS RD	''''
DESIGNED BY	S. JOHNSTON			JOB NUI		Engineering @cologist		Washington State	REPAIR DEBRIS FENCE	SHEET
ENTERED BY	A. PIERCE			21X3	33	Sed Geolog				8
CHECKED BY	D. WISE			CONTRAC	CT NO. LOCATION NO.	Marc F. Fish		Department of Transportation		OF
PROJ. ENGR.	M. BRIGGS				XL 6376	SEE SHEET CT1 DATE	DATE	-	TECCO MESH DETAIL	22 SHEETS
REGIONAL ADM.	C. FRANCIS	REVISION	DATE	BY	AL 03/0	P.E. STAMP BOX	P.E. STAMP BOX		120002011	SHEETS





TECCO MESH DETAILS

NOTES

- 1. TREES TO BE REMOVED BEYOND THE LIMITS OF THE DEBRIS CHUTE SHALL BE IDENTIFIED BY THE ENGINEER.
- THE BROW OF THE DEBRIS CHUTE SHALL BE ROUNDED TO ELIMINATE OVERHANGING MATERIAL PRIOR TO INSTALLATION OF EROSION CONTROL BLANKET. SEE SPECIAL PROVISIONS "ROADSIDE CLEANUP."

FILE NAME	G:\444302\03 - Design\D01421I	O SR14 1 Mile W	of Salmon Falls	s Rd - Repa	air Debris	Fence\20-CA	DD-Pla	ans\20-1	1 PS&E	Sheets\XL6376_PS_GT.dgn	Γ
TIME	11:58:12 AM							REGION	STATE	FED.AID PROJ.NO.	1
DATE	5/17/2022							10	WASH	NHPP-0014(088)	ı
PLOTTED BY	piercea							10	WASH		ı
DESIGNED BY	S. JOHNSTON								IUMBER		ı
ENTERED BY	A. PIERCE							21X	333		ı
CHECKED BY	D. WISE							CONTR	RACT NO.	LOCATION NO.	1
PROJ. ENGR.	M. BRIGGS									XL 6376	ı
REGIONAL ADM.	C. FRANCIS		REVISION			DATE	BY			XE 0310	

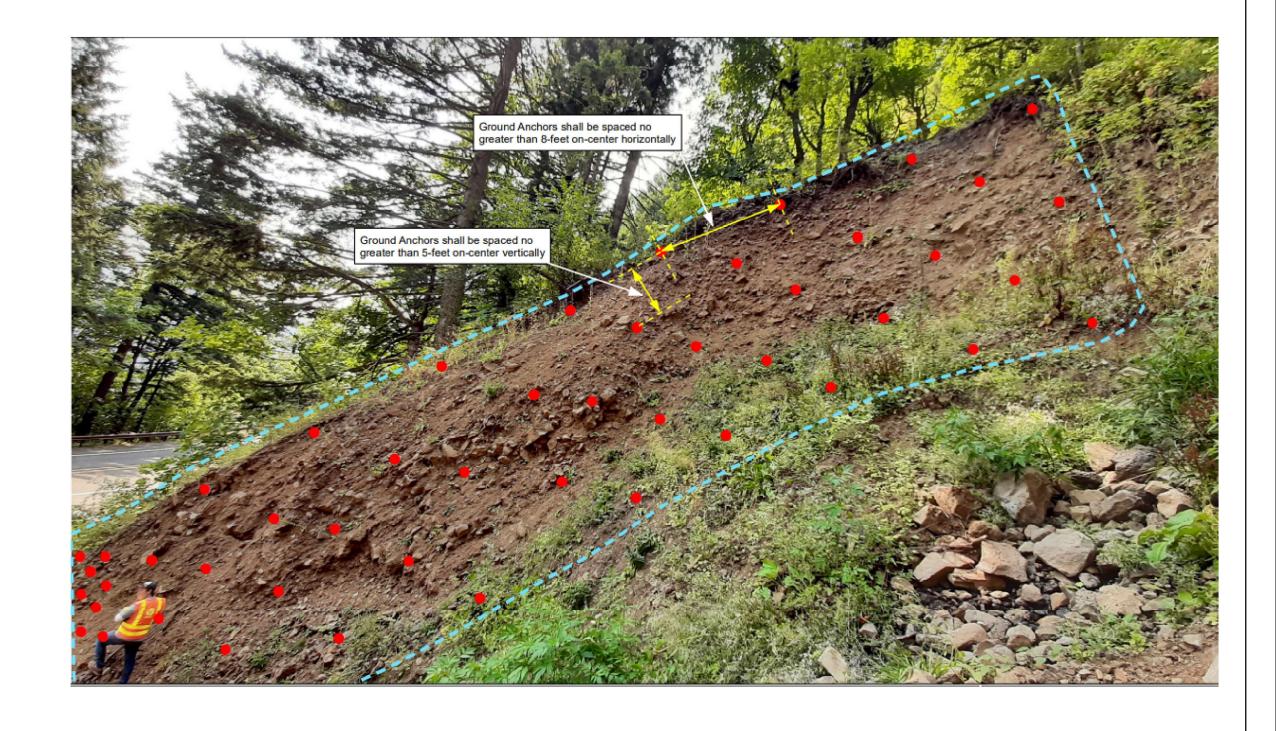


Washington State Department of Transportation

			SR 14			
1 M	ILE W	/ OF	SALMO	N F	ALLS	RD
	REF	PAIR	DEBRIS	FΕ	NCE	

TECCO MESH DETAIL

Plot 4
PLAN REF NO
TMD2
SHEET
9
OF
22
SHEETS





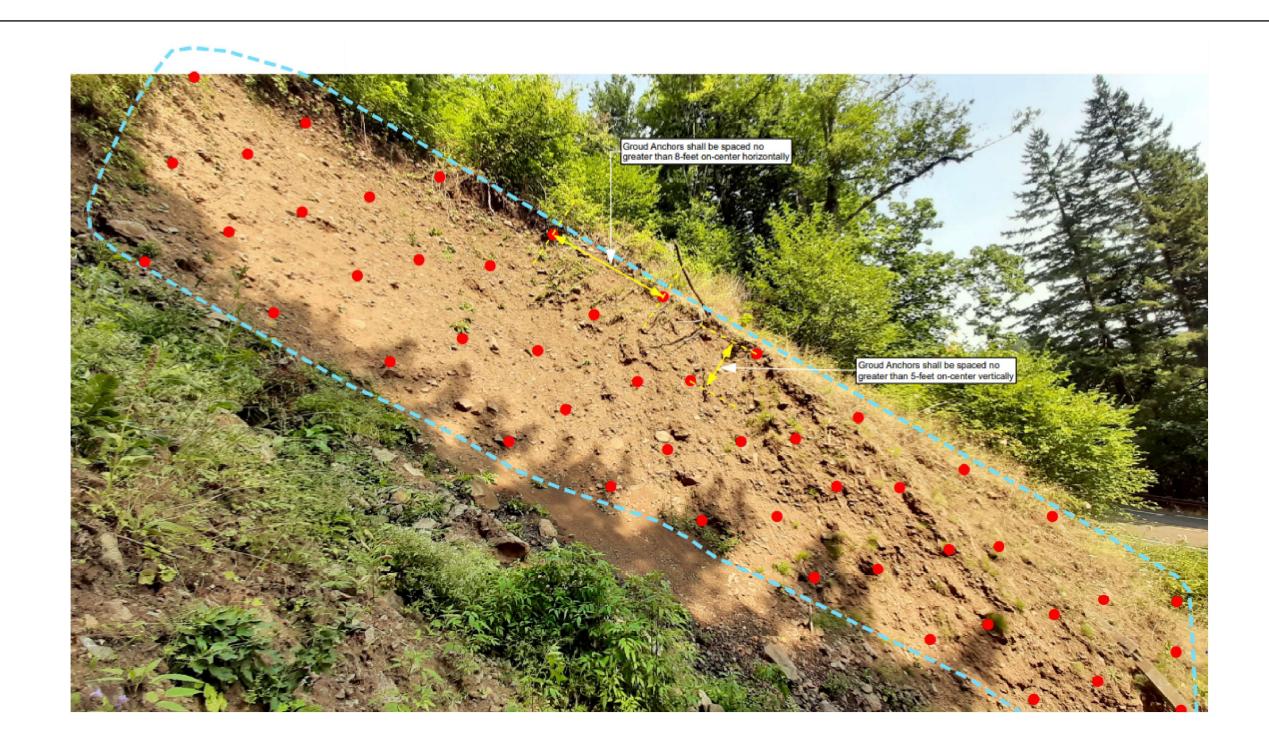
TECCO MESH SYSTEM LIMITS



TECCO MESH SYSTEM GROUND ANCHORS

TECCO MESH DETAILS

FILE NAME	G:\444302\03 - Design\D01421	ID SR14 1 Mile W of Salmon Falls Rd - Repair Debris	Fence\20-CA	DD-Plans\2′	20-11 PS&E	Sheets\XL6376_PS_GT.dgn	of Wash				Plot 5
TIME	2:44:23 PM			REGIO	GION STATE	FED.AID PROJ.NO.				SR 14	PLAN REF NO
DATE	5/16/2022			10	0 WASH	NHPP-0014(088)	6/13/22				TMD3
PLOTTED BY	piercea				VVASI					1 MILE W OF SALMON FALLS RD	11005
DESIGNED BY	S. JOHNSTON				OB NUMBER		Engineering /Seckligiss		Washington State	REPAIR DEBRIS FENCE	SHEET
ENTERED BY	A. PIERCE			21	1X333		Sed Geoff worth				10
CHECKED BY	D. WISE			CO	ONTRACT NO.	LOCATION NO.	Marc F. Fish		Department of Transportation		OF
PROJ. ENGR.	M. BRIGGS					XL 6376	SEE SHEET CT1	DATE		TECCO MESH DETAIL	22 SHEETS
REGIONAL ADM.	C. FRANCIS	REVISION	DATE	BY		ΛΕ 3370	P.E. STAMP BOX	P.E. STAMP BOX		1	J. STEETS





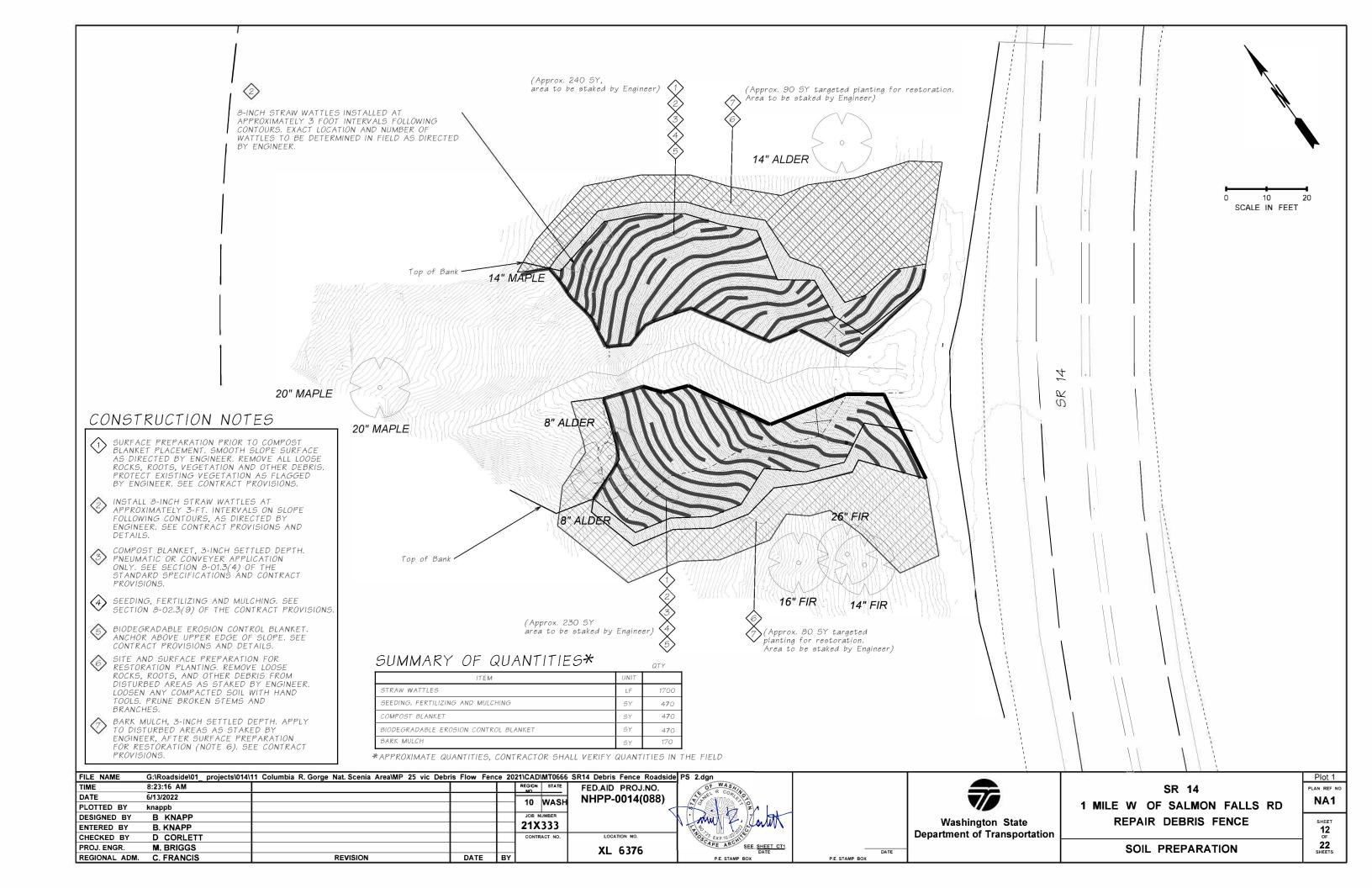
TECCO MESH SYSTEM LIMITS

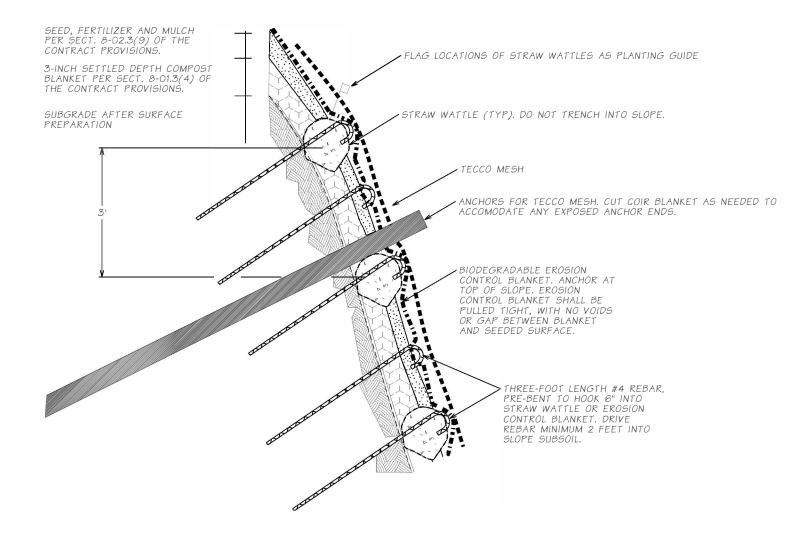


TECCO MESH SYSTEM GROUND ANCHORS

TECCO MESH DETAILS

FILE NAME	G:\444302\03 - Design\D01421	ID SR14 1 Mile W of Salmon Falls Rd - Repair Debris	Fence\20-CA	ົD-Plans\20	.0-11 PS&E	Sheets\XL6376_PS_GT.dgn	of Wash				Plot 6
TIME	2:44:53 PM			REGIC	GION STATE	FED.AID PROJ.NO.				SR 14	PLAN REF NO
DATE	5/16/2022			10	0 WASH	NHPP-0014(088)	6/13/22				TMD4
PLOTTED BY	piercea				VVASI					1 MILE W OF SALMON FALLS RD	110104
DESIGNED BY	S. JOHNSTON				OB NUMBER		Engineering Geologist		Washington State	REPAIR DEBRIS FENCE	SHEET
ENTERED BY	A. PIERCE			21	1X333		rsed Geografia				11
CHECKED BY	D. WISE			COI	ONTRACT NO.	LOCATION NO.	Marc F. Fish		Department of Transportation		OF
PROJ. ENGR.	M. BRIGGS				,	XL 6376	SEE SHEET CT1	DATE		TECCO MESH DETAIL	22 SHEETS
REGIONAL ADM.	C. FRANCIS	REVISION	DATE	BY	ļ	XE 0370	P.E. STAMP BOX	P.E. STAMP BOX		1	SHEETS





CONSTRUCTION NOTES

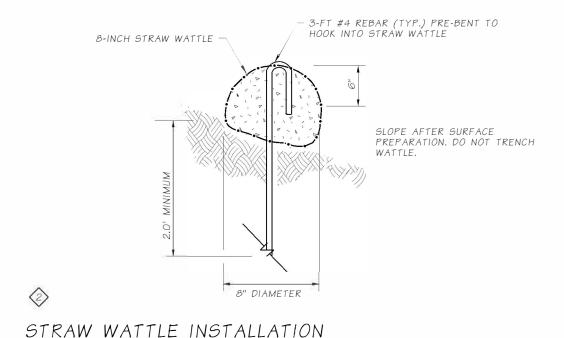
- SURFACE PREPARATION PRIOR TO COMPOST BLANKET PLACEMENT. SMOOTH SLOPE SURFACE AS DIRECTED BY ENGINEER. REMOVE ALL LOOSE ROCKS, ROOTS, VEGETATION AND OTHER DEBRIS. PROTECT EXISTING VEGETATION AS FLAGGED BY ENGINEER. SEE CONTRACT PROVISIONS.
- INSTALL 8-INCH STRAW WATTLES AT APPROXIMATELY 3-FT. INTERVALS ON SLOPE FOLLOWING CONTOURS, AS DIRECTED BY ENGINEER. SEE CONTRACT PROVISIONS AND DETAILS.
- 3 COMPOST BLANKET, 3-INCH SETTLED DEPTH. PNEUMATIC OR CONVEYER APPLICATION ONLY. SEE SECTION 8-01.3(4) OF THE STANDARD SPECIFICATIONS AND CONTRACT PROVISIONS.
- 4 SEEDING, FERTILIZING AND MULCHING. SEE SECTION 8-02.3(9) OF THE CONTRACT PROVISIONS.
- 5 BIODEGRADABLE EROSION CONTROL BLANKET.
 ANCHOR ABOVE UPPER EDGE OF SLOPE. SEE
 CONTRACT PROVISIONS AND DETAILS.
- SITE AND SURFACE PREPARATION FOR RESTORATION PLANTING. REMOVE LOOSE ROCKS, ROOTS, AND OTHER DEBRIS FROM DISTURBED AREAS AS STAKED BY ENGINEER. LOOSEN ANY COMPACTED SOIL WITH HAND TOOLS. PRUNE BROKEN STEMS AND BRANCHES.
- BARK MULCH, 3-INCH SETTLED DEPTH. APPLY TO DISTURBED AREAS AS STAKED BY ENGINEER, AFTER SURFACE PREPARATION FOR RESTORATION (NOTE 6). SEE CONTRACT PROVISIONS.



COMPOST, SEEDING AND EROSION CONTROL BLANKET PLACEMENT

-(1)

FILE NAME	G:\Roadside\01_ projects\014\	11 Columbia R. Gorge Nat. Scenia Area\MP 25 vic Debi	ris Flow Fer	1ce 20	21\CAD\MT0666	SR14 Debris Fence Roadside	PS 2.dgn	**	, <u>55</u>		Plot 7
TIME	8:25:06 AM				REGION STATE	FED.AID PROJ.NO.	W EL R CORING			SR 14	PLAN REF NO
DATE	6/13/2022				10 WASH	NHPP-0014(088)	To semily (1)				NA2
PLOTTED BY	knappb				10 WASH			_		1 MILE W OF SALMON FALLS RD	11//2
DESIGNED BY	B KNAPP				JOB NUMBER	\	Coult		Washington State	REPAIR DEBRIS FENCE	SHEET
ENTERED BY	B KNAPP				21X333		Market Cornel		1		13
CHECKED BY	D CORLETT				CONTRACT NO.	LOCATION NO.	SCAPE ARCHIT		Department of Transportation		OF
PROJ. ENGR.	M. BRIGGS					XL 6376	SEE SHEET CT1	DATE		SOIL PREPARATION	22 SHEETS
REGIONAL ADM	. C. FRANCIS	REVISION	DATE	BY		AE 3370	P.E. STAMP BOX	P.E. STAMP BOX			SHEETS



CONSTRUCTION NOTES

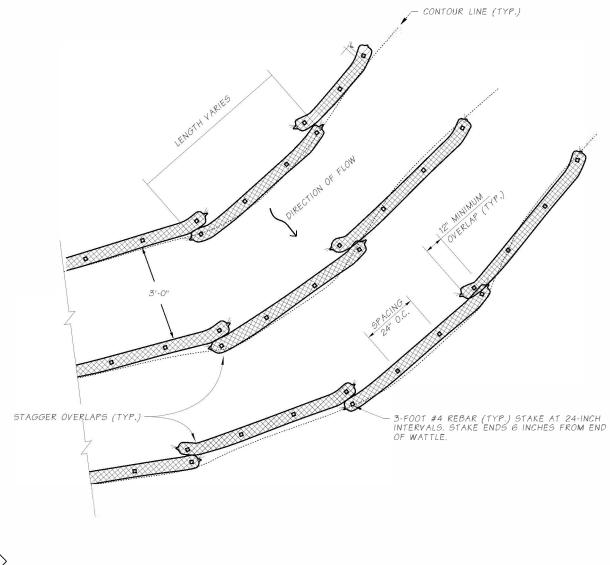
SURFACE PREPARATION PRIOR TO COMPOST BLANKET PLACEMENT, SMOOTH SLOPE SURFACE AS DIRECTED BY ENGINEER. REMOVE ALL LOOSE ROCKS, ROOTS, VEGETATION AND OTHER DEBRIS. PROTECT EXISTING VEGETATION AS FLAGGED BY ENGINEER. SEE CONTRACT PROVISIONS.

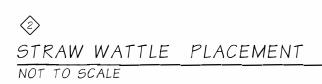
NOT TO SCALE

- INSTALL 8-INCH STRAW WATTLES AT APPROXIMATELY 3-FT. INTERVALS ON SLOPE FOLLOWING CONTOURS, AS DIRECTED BY ENGINEER. SEE CONTRACT PROVISIONS AND
- COMPOST BLANKET, 3-INCH SETTLED DEPTH.
 PNEUMATIC OR CONVEYER APPLICATION
 ONLY. SEE SECTION 8-01.3(4) OF THE
 STANDARD SPECIFICATIONS AND CONTRACT
- SEEDING, FERTILIZING AND MULCHING. SEE
 SECTION 8-02 3/91 DE THE CONTRACT DESCRIPTION SECTION 8-02.3(9) OF THE CONTRACT PROVISIONS.
- BIODEGRADABLE EROSION CONTROL BLANKET. ANCHOR ABOVE UPPER EDGE OF SLOPE. SEE CONTRACT PROVISIONS AND DETAILS.
- SITE AND SURFACE PREPARATION FOR RESTORATION PLANTING. REMOVE LOOSE ROCKS, ROOTS, AND OTHER DEBRIS FROM DISTURBED AREAS AS STAKED BY ENGINEER. LOOSEN ANY COMPACTED SOIL WITH HAND TOOLS. PRUNE BROKEN STEMS AND BRANCHES.
- BARK MULCH, 3-INCH SETTLED DEPTH. APPLY TO DISTURBED AREAS AS STAKED BY ENGINEER, AFTER SURFACE PREPARATION FOR RESTORATION (NOTE 6). SEE CONTRACT

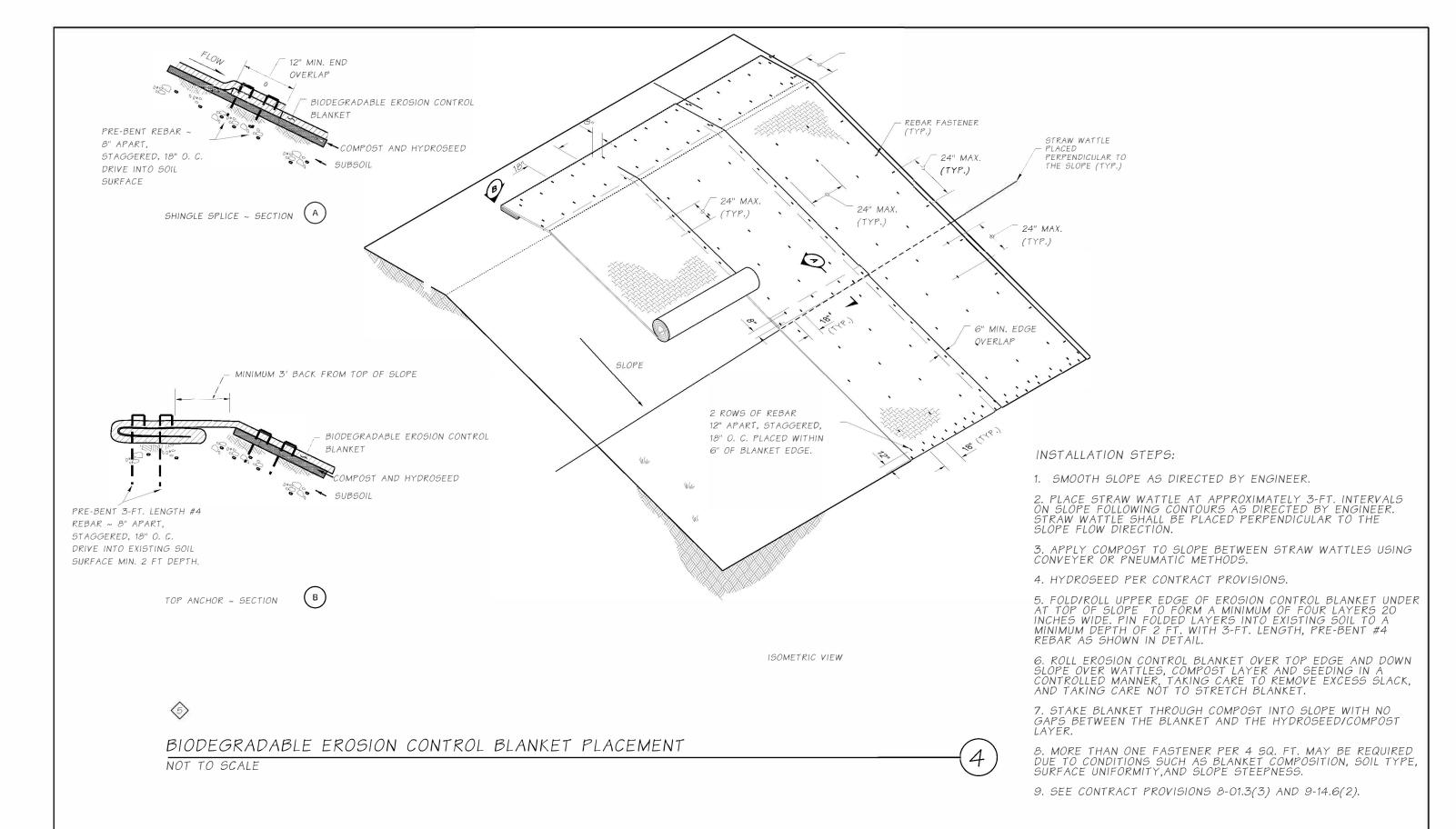
NOTES

- 1. INSTALL STRAW WATTLES ON PREPARED SLOPE SURFACE.
- 2. INSTALL WATTLES PERPENDICULAR TO FLOW ALONG CONTOURS.
- 3. DRIVE PRE-BENT REBAR STAKES THROUGH STRAW WATTLES INTO SOIL SLOPE AT 24-INCH INTERVALS. REBAR SHALL BE INSTALLED PERPENDICULAR TO THE SLOPE AT A MINIMUM 2 FOOT DEPTH. SIX INCH BENT END OF STAKE SHALL BE DRIVEN INTO WATTLE.
- 4. WATTLES SHALL BE FLUSH TO THE GROUND SURFACE WITH NO GAPS OR BENDS. WATTLES SHALL NOT BE COMPRESSED TO A DIAMETER OF LESS THAN 6 INCHES DURING STAKING. DO NOT TRENCH
- 2. OVERLAP ADJACENT WATTLE ENDS 12" BEHIND ONE ANOTHER AND STAKE IN PLACE.





FILE NAME	G:\Roadside\01_ projects\014\	11 Columbia R. Gorge Nat. Scenia Area\MP 25 vic Debr	is Flow Fe	1ce 20	021\CAD\MT06	66 SR14 Debris Fence Roadside	PS 2.dgn				Plot 1
TIME	8:26:19 AM			[REGION STAT	f FED.AID PROJ.NO.	W CL R CONING			SR 14	PLAN REF NO
DATE	6/13/220222		1	1	10 WAS	대 NHPP-0014(088)	A Comme Will a Call of				NA3
PLOTTED BY	knappb				10 000]	10 2 T Z / 1 .	1		1 MILE W OF SALMON FALLS RD	1473
DESIGNED BY	B KNAPP				JOB NUMBER		A Long to the long	1	Washington State	REPAIR DEBRIS FENCE	SHEET
ENTERED BY	B KNAPP				21X333		I Figure 1		3	KEI AIK DEBKIS I ENGE	14
CHECKED BY	D CORLETT				CONTRACT NO.	LOCATION NO.	SCAPE ARCHIT		Department of Transportation		OF
PROJ. ENGR.	M. BRIGGS					XL 6376	SEE SHEET CT1	DATE		SOIL PREPARATION	22 SHEETS
REGIONAL ADM.	. C. FRANCIS	REVISION	DATE	BY		AE 0370	P.E. STAMP BOX	P.E. STAMP BOX			SAEETS



FILE NAME	G:\Roadside\01_ projects\014\	11 Columbia R. Gorge Nat. Scenia Area\MP 25 vic Debr	is Flow Fer	1ce 20	21\CAD\MT0666	SR14 Debris Fence Roadside	PS 2.dgn				Plot 1
TIME	8:27:41 AM				REGION STATE	FED.AID PROJ.NO.	OF WASHIA			SR 14	PLAN REF NO
DATE	6/13/2022				10 WASH	NHPP-0014(088)	PAME WILLS				NA4
PLOTTED BY	knappb				10 10] ` ` ` <	600000000000000000000000000000000000000	_		1 MILE W OF SALMON FALLS RD	
DESIGNED BY	B KNAPP				JOB NUMBER		A CLASSIFICATION OF THE PARTY O		Washington State	REPAIR DEBRIS FENCE	SHEET
ENTERED BY	B. KNAPP				21X333		TELE MY TOO COUNTY		1		15
CHECKED BY	D. CORLETT				CONTRACT NO.	LOCATION NO.	25 EXP 10 122 1116		Department of Transportation		OF
PROJ. ENGR.	M. BRIGGS					XL 6376	SEE SHEET CT1	DATE	1	SOIL PREPARATION	22 SHEETS
REGIONAL ADM	. C. FRANCIS	REVISION	DATE	BY		AL 3370	P.E. STAMP BOX	P.E. STAMP BOX			GIEETS

ROADSIDE RESTORATION PLANT MATERIAL SCHEDULE

Symbol	Plant Code	Botanical Name	Common Name	Height	Root Type	A.S.N.S.	Spacing	Layout	Notes	Total in mix *
N/A	TREES (TMR)	Pseudotšuga menziešii	Douglas Fir	#7 min. (3' min.)	Cont.	4.7.2 Type 4	where staked	na	Min. 24" spread. Unsheared. Do not stake.	10
		Amelancher alnifolia	Western Serviceberry	18"-36"	B.R.	3.4.2 Type 3	where staked	na	4 canes min.	50
		Holodiscus discolor	Creambush Oceanspray	18"-36"	B.R.	3.4.2 Type 3	where staked	na	4 canes min.	50
	SHRUB Mix A (SMA)	Mahonia aquifolium	Tall Oregon Grape	#1	Cont.	5.7.2 Type 4	where staked	na	3 stems min.	100
	CHIND WIN TI (CHIN)	Polystichum munitum	Sword Fern	#1	Cont.		where staked	na	5 fronds min.	100
		Symphoricarpos albus	Snowberry	18"-36"	B.R.	3.3.2 Type 2	where staked	na	4 canes min.	250
		Elymus glaucus	Blue Wild Rye		10 ci Plug or B.R.		12" oc	Triang.	5" min. root length/ 4" min top growth	600
Ÿ	CRACC MIV A (CMA)	Festuca idahoensis	Idaho Fescue		10 ci Plug or B.R.		12" 00	Triang.	5" min. root length/ 4" min top growth	450
	GRASS MIX A (GMA)	Symphoricarpos albus	Snowberry	6"-12"	10 ci Plug or B.R.		24" oc	Triang.	5" min. root length/ 6" min top growth	350
		Achillea millefolium	Yarrow		10 ci Plug or B.R.		12" 00	Triang.	5" min. root length	100
		Anaphalis margaritacea	Pearly Everlasting		10 ci Plug or B.R.		12" 00	Triang.	5" min. root length	100
	GRASS MIX B (GMB)	Elymus glaucus	Blue Wild Rye		10 ci Plug or B.R.		12" oc	Triang.	5" min. root length/ 4" min top growth	750
		Festuca idahoensis	ldaho Fescue		10 ci Plug or B.R.		12" oc	Triang.	5" min. root length/ 4" min top growth	550
		Koeleria macrantha	Prairie Junegrass		10 ci Plug or B.R.		12" 00	Triang.	5" min. root length/ 4" min top growth	100

B&B Balled and Burlaped B.R. Bare Root

Cont. Container
O.C. On Center
A.S.N.S. American Standards

*APPROXIMATE QUANTITIES, CONTRACTOR SHALL VERIFY QUANTITIES IN THE FIELD

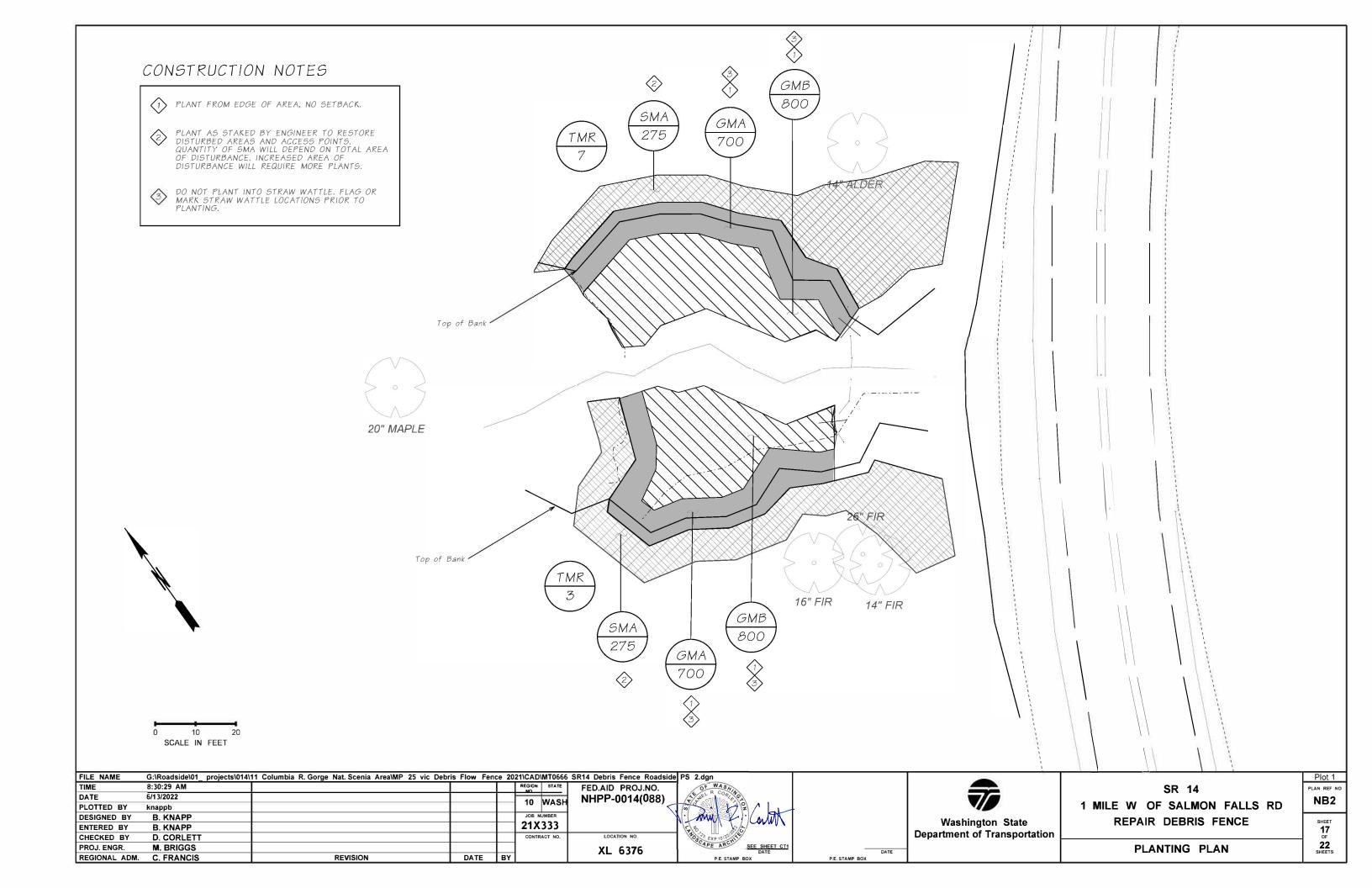
PLANTING NOTES:

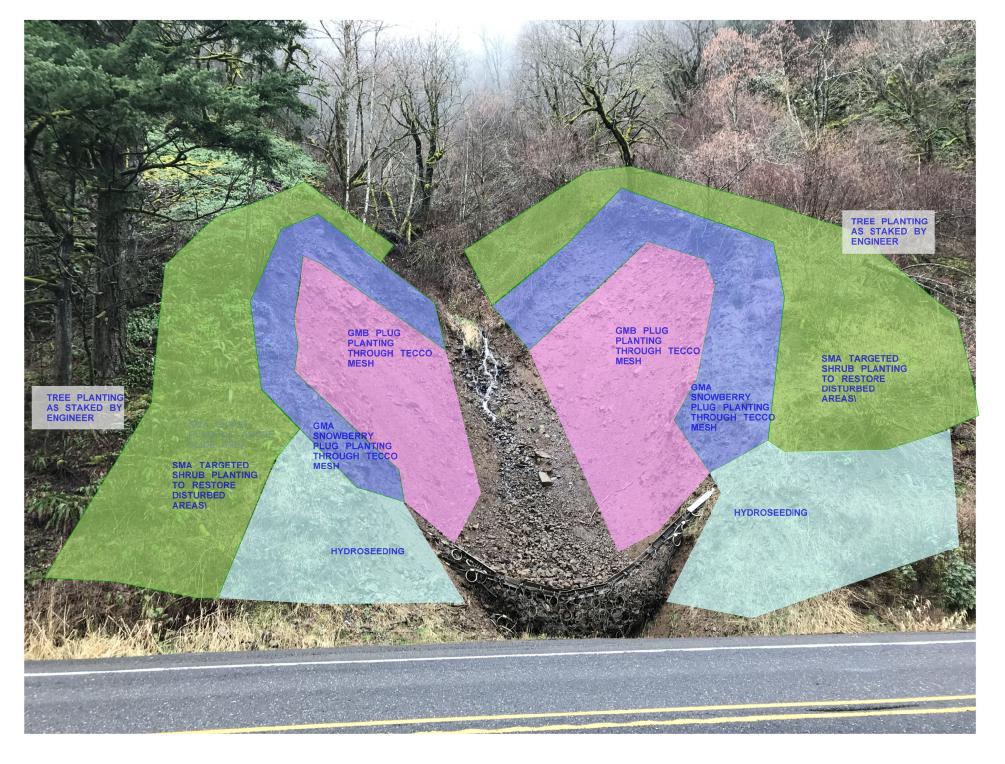
for Nursery Stock

- 1. All material shall meet the requirements of the American Standard Nursery Stock, April 14, 2014. Conflicts between the ASNS and these specifications, then these specifications shall apply. A letter of compliance with the "American Standard of Nursery Stock" is required from the supplier for all plant material.
- 2. All plant material shall be nursery grown stock. Container plant material shall be well rooted in pot and meet requirements of Section 9-14.7(1) and 9-14.7(2) of the contract provisions.
- 3. Tree heights shall be measured at the midpoint between the uppermost whorl and the tip of the leader.
- 4. Planting areas shall be staked by contractor and approved by the Engineer prior to planting.
- 5. No plant material shall be planted until it has been inspected and approved for planting by the Engineer.
- 6. Plant material shall be stored and handled per section 9-14.7(3) of the contract provisions.

- 7. Plant material shall be installed per section 8-02.3(8) of the standard specifications and contract provisions.
- 8. Plants to be randomly mixed within designated plant groups as approved by the Engineer unless specified otherwise. Completely remove burlap, wire baskets, plastic, string or wire lacing fromthe plant material and planting hole. Roots of bareroot stock shall not be bunched, curled, twisted, or unreasonably bent when placed in the planting hole. Loosen sides and roots of container plants prior to installation, cut circling roots. All plant crowns to be free of bark mulch.
- 9. See planting details and contract provisions.

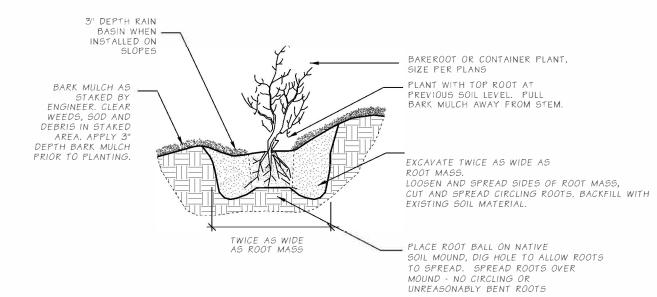
FILE NAME	G:\Roadside\01_ projects\014\	11 Columbia R. Gorge Nat. Scenia Area\MP 25 vic Debr	is Flow Fen	nce 202	21\CAD\MT0666	SR14 Debris Fence Roadside	PS 2.dgn	1	,512		Plot 1
TIME	8:29:10 AM				R EGION STATE	FED.AID PROJ.NO.	OF WASHIA			SR 14	PLAN REF NO
DATE	6/13/2022				10 WASH	[┤] NHPP-0014(088)	TE MIEL NO PORTO				NB1
PLOTTED BY	knappb				10 WASH	''''	V6/2 / 2	ł-	\ \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	1 MILE W OF SALMON FALLS RD	
DESIGNED BY	B. KNAPP				JOB NUMBER		Mary Count		Washington State	REPAIR DEBRIS FENCE	SHEET
ENTERED BY	B. KNAPP				21X333		1 /5/18 S. S. S. S. S. S. S. S. S. S. S. S. S.				16
CHECKED BY	D. CORLETT				CONTRACT NO.	LOCATION NO.	10 5 EXP. 10 122 HITE		Department of Transportation		OF
PROJ. ENGR.	M. BRIGGS		1			XL 6376	SEE SHEET CT1	DATE		PLANTING PLAN	22 SHEETS
REGIONAL ADM	C FRANCIS	REVISION	DATE	BV	1	AL 0370	DE STAND BOY	DE STAND BOY			SHEETS



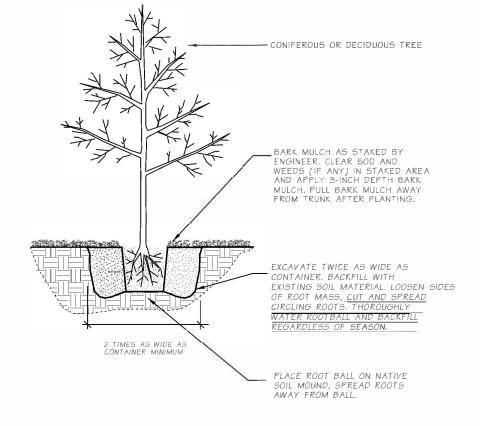


CONCEPT ILLUSTRATION. ACTUAL AREAS TO BE DETERMINED AS DIRECTED BY ENGINEER.

FILE NAME	G:\Roadside\01_ projects\014\	11 Columbia R. Gorge Nat. Scenia Area\MP 25 vic Debi	ris Flow Fer	nce 20	021\CAD\MT0666	SR14 Debris Fence Roadside	PS 2.dgn				Plot 1
TIME	12:37:10 PM				REGION STATE	FED.AID PROJ.NO.	OF WASA			SR 14	PLAN REF NO
DATE	5/16/2022				10 WASH	NHPP-0014(088)	THE WINDS CO.				NB3
PLOTTED BY	knappb				10 WASH					1 MILE W OF SALMON FALLS RD	INDS
DESIGNED BY	B. KNAPP				JOB NUMBER	\	N. Lawis		Washington State	REPAIR DEBRIS FENCE	SHEET
ENTERED BY	B. KNAPP				21X333				<u> </u>		18
CHECKED BY	D. CORLETT				CONTRACT NO.	LOCATION NO.	EXP.10122 See sheet CT1		Department of Transportation		OF
PROJ. ENGR.	M. BRIGGS					XL 6376	DATE DATE	DATE		PLANTING PLAN	22 SHEETS
REGIONAL ADM.	C. FRANCIS	REVISION	DATE	BY		AL 3370	P.E. STAMP BOX	P.F. STAMP BOX			SILEETS



SLOPE AND BAREROOT PLANTING -SMA

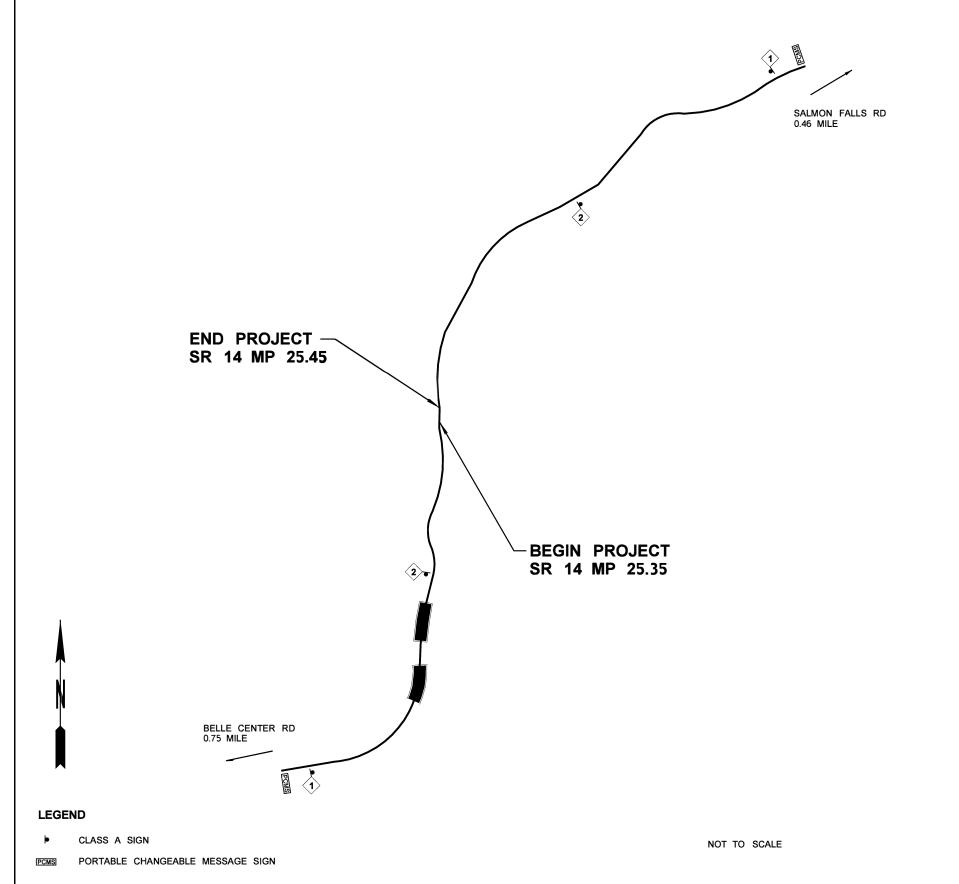


TREE PLANTING

NOT TO SCALE

-(2)

FILE NAME	G:\Roadside\01_ projects\014\	11 Columbia R. Gorge Nat. Scenia Area\MP 25 vic Deb	ris Flow Fen	ce 202	1\CAD\MT0666	SR14 Debris Fence Roadside	PS 2.dgn				Plot 1
TIME	11:16:42 AM				REGION STATE	FED.AID PROJ.NO.	OF WASH			SR 14	PLAN REF NO
DATE	6/13/2022		1		10 WASH	NHPP-0014(088)	PLAME COMING				NB4
PLOTTED BY	knappb				IU WASH			_		1 MILE W OF SALMON FALLS RD	1104
DESIGNED BY	B. KNAPP				JOB NUMBER	\			Washington State	REPAIR DEBRIS FENCE	SHEET
ENTERED BY	B. KNAPP				21X333		Call Call		3	KEI AIK DEBKIS I ENGE	19
CHECKED BY	D. CORLETT			1 1	CONTRACT NO.	LOCATION NO.	20 5 EXP. 10 122 HITE		Department of Transportation		OF
PROJ. ENGR.	M. BRIGGS		1			XL 6376	SEE SHEET CT1	DATE		PLANTING PLAN	22 SHEETS
REGIONAL ADM	C FRANCIS	REVISION	DATE	BY		AL 3370	DE STAMP BOY	DE STAMP BOY		· - · · · · · · · · · · · · · · · · · ·	SHEETS



1 2 REQUIRED

G20-2A

END
ROAD WORK

AHEAD

48"

W20-1

AHEAD

48"

W20-1

2 REQUIRED

G20-2A

END
ROAD WORK

48" X 24"

48" X 36"

CLASS A SIGN SCHEDULE

25.80

25.16

25.16

SIGN

W20-1

G50-2A

G24-501

SR-14

WB (MP) EB (MP)

24.65

25.73

25.73

G24-501

PCMS
BEFORE PROJECT START

1 2
SR 14 BEGINS
ROAD (DATE)
WORK
2 SEC. 2 SEC.

LOCATE AT SR 14 MP 24.11 FOR EASTBOUND TRAFFIC, SR 14 MP 25.94 FOR WESTBOUND TRAFFIC. INSTALL FIVE CALENDAR DAYS PRIOR TO START DATE.

PCMS

DURING PROJECT ACTIVITIES

1	2	
ROAD WORK AHEAD	EXPECT DELAYS	
2 SEC.	2 SEC.	

LOCATE AT SR 14 MP 24.11 FOR EASTBOUND TRAFFIC, SR 14 MP 25.94 FOR WESTBOUND TRAFFIC.

NOTES

- 1. CLASS A SIGNS SHALL BE POST MOUNTED.
- ALL SIGNS ARE BLACK ON ORANGE UNLESS OTHERWISE SPECIFIED.
- 3. PRELIMINARY SIGN LOCATIONS TO BE STAKED BY THE ENGINEER. CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING SIGN LOCATION DOES NOT CONFLICT WITH ANY EXISTING UNDERGROUND UTILITIES. IF CONFLICT IS ENCOUNTERED CONTRACTOR SHALL ADJUST SIGN LOCATION TO AVOID CONFLICT.

FILE NAME	G:\444302\03 - Design\D01421	D SR14 1 Mile W	of Salmon Falls Rd	- Repair Debris	Fence\20-CAI	DD-Pla	ns\20-1	1 PS&E	Sheets\XL6376_PS_TC.dgn	
TIME	2:50:12 PM						REGION NO.	STATE	FED.AID PROJ.NO.	
DATE	5/16/2022							WASH	NHPP-0014(088)	
PLOTTED BY	piercea						10	WASH		
DESIGNED BY	A. PIERCE							UMBER		
ENTERED BY	A. PIERCE						21X	.333		
CHECKED BY	D. WISE						CONTR	ACT NO.	LOCATION NO.	
PROJ. ENGR.	M. BRIGGS								XL 6376	
REGIONAL ADM.	C. FRANCIS		REVISION		DATE	BY			AL 0370	
		•			•			•	•	



DATE

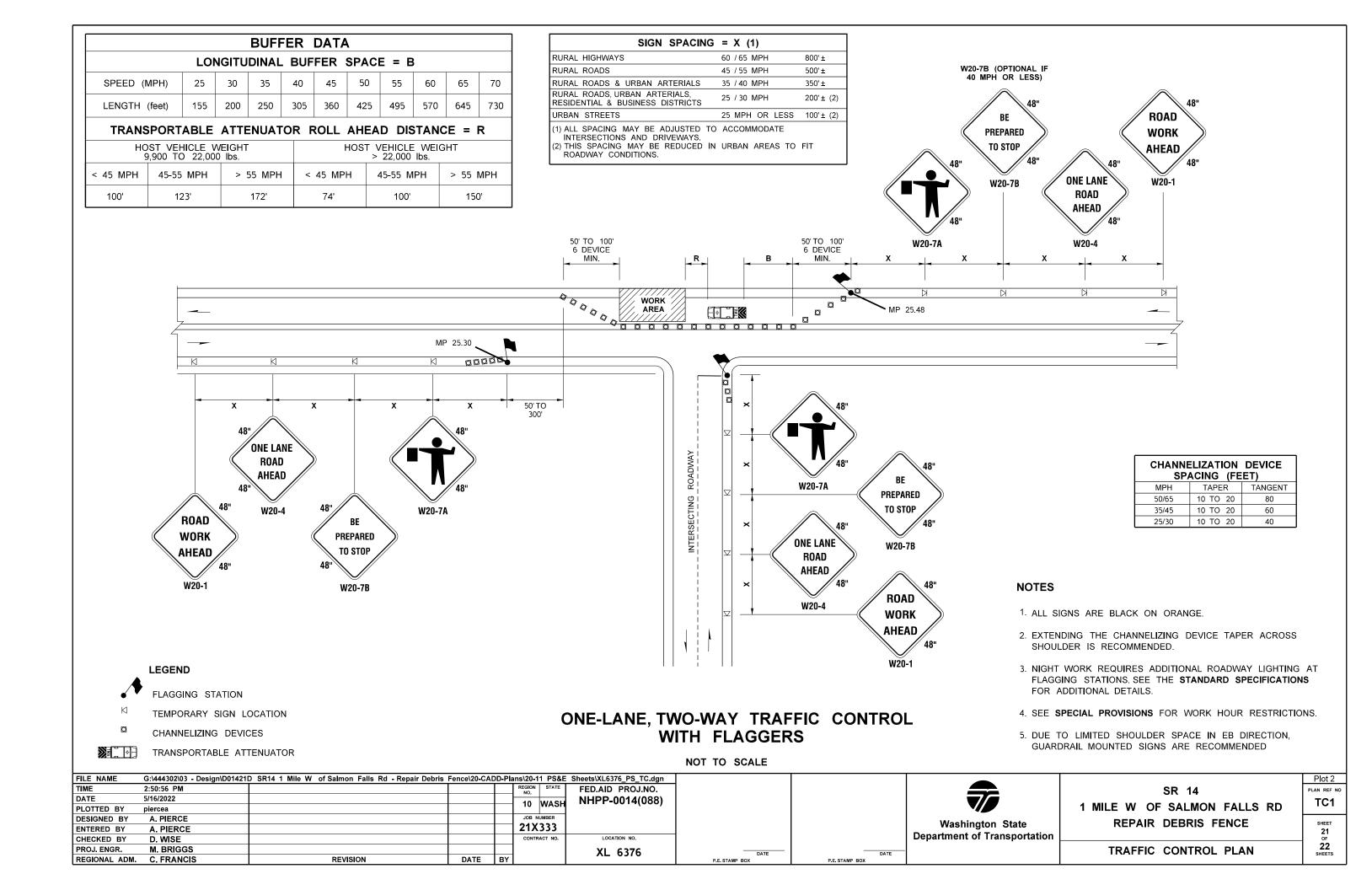
P.E. STAMP BOX

	SR 14
1	MILE W OF SALMON FALLS RD
	REPAIR DEBRIS FENCE

CLASS A SIGN PLAN

SHEET
20
OF
22
SHEETS

Plot 4
PLAN REF NO
CS1



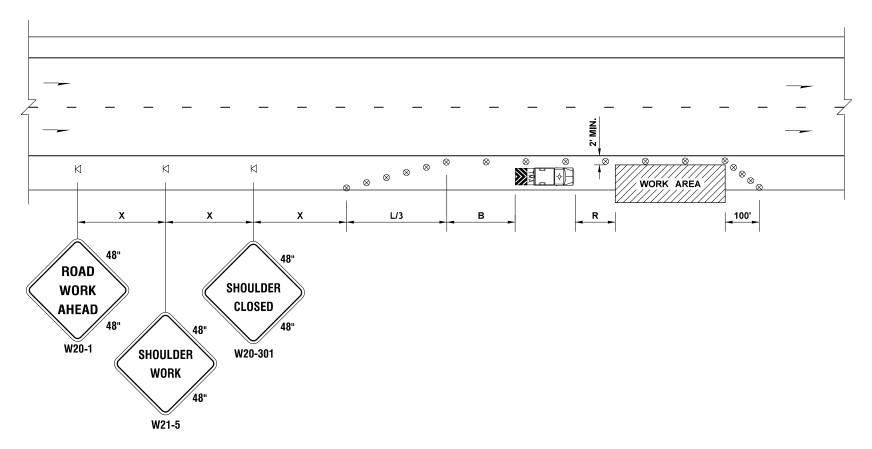
	MININ	IUM S	HOUL	DER T	APER	LENG	TH =	L/3 (fe	et)			
SHOULDER		Posted Speed (mph)										
WIDTH (feet)	25	30	35	40	45	50	55	60	65	70		
8'		1	-	-	120	130	150	160	170	190		
10'	-	-	-	-	150	170	190	200	220	240		

SIGN SPACING	= X (1)	
FREEWAYS & EXPRESSWAYS	55 / 70 MPH 1	500' ±
RURAL HIGHWAYS	60 / 65 MPH	800' ±
RURAL ROADS	45 / 55 MPH	500' ±
(1) ALL SPACING MAY BE ADJUSTED TO RAMPS, AT-GRADE INTERSECTIONS AN		RCHANGE

	CHANNELIZATION DEVICE SPACING (feet)									
MPH	TAPER	TANGENT								
50/70	40	80								
35/45	30	60								

BUFFER DATA												
LONGITUDINAL BUFFER SPACE = B												
SPEED (MPH)	25	30	35	40	45	50	55	60	65	70		
LENGTH (feet)	155	200	250	305	360	425	495	570	645	730		
TRANSPORT	TRANSPORTABLE ATTENUATOR ROLL AHEAD DISTANCE = R											

TRANS	PORTABLE A	ATTENUATOR	R ROLL AHE	AD DISTAN	CE = R			
	VEHICLE WEIG 0 TO 22,000 lbs		HOST VEHICLE WEIGHT > 22,000 lbs.					
< 45 MPH	< 45 MPH 45-55 MPH > 55		< 45 MPH	45-55 MPH	> 55 MPH			
100'	123'	172'	74'	100'	150'			



- TEMPORARY SIGN LOCATION
- TRAFFIC SAFETY DRUM

TRANSPORTABLE ATTENUATOR

SHOULDER CLOSURE - HIGH SPEED

NOTES

- 1. NO ENCROACHMENT IN TRAVELED LANE. IF ENCROACHMENT IS NECESSARY, LANE SHALL BE CLOSED.
- 2. DEVICE SPACING FOR THE DOWNSTREAM TAPER SHALL BE 20' (FT) O.C.
- 3. ALL SIGNS ARE BLACK ON ORANGE.

NOT TO SCALE

FILE NAME	G:\444302\03 - Design\D01421D SR1	4 1 Mile W of Salmon Falls Rd - Repair Debris	Fence\20-CAD	D-Plans\20-11 PS&I	E Sheets\XL6376_PS_TC.dgn					Plot 6
TIME	2:51:13 PM			REGION STATE	FED.AID PROJ.NO.				SR 14	PLAN REF NO
DATE	5/16/2022			10 WASH	NHPP-0014(088)					TC2
PLOTTED BY	piercea			IU WASI]				1 MILE W OF SALMON FALLS RD	
DESIGNED BY	A. PIERCE			JOB NUMBER				Washington State	REPAIR DEBRIS FENCE	SHEET
ENTERED BY	A. PIERCE			21X333						22
CHECKED BY	D. WISE			CONTRACT NO.	LOCATION NO.			Department of Transportation		OF OF
PROJ. ENGR.	M. BRIGGS				XL 6376		DATE		TRAFFIC CONTROL PLAN	22 SHEETS
REGIONAL ADM.	C. FRANCIS	REVISION	DATE	BY	AE 03/0	P.E. STAMP BOX	P.E. STAMP BOX			SHEETS